**Introduction to Calculus 45S (half credit)**

**Description**

Introduction to Calculus is designed for students who have a strong interest in mathematics and desire to study more advanced topics. The course builds upon the topics that were studied in Grade 12 Pre-Calculus Mathematics, so it is advisable to have completed Pre-Calculus 40S in advance of Introduction to Calculus.

It is imperative that students log in regularly, plan to work for at least an hour every second day. Students work through the lessons independently and can email the teacher with questions. A significant amount of work will be required to complete the lessons, practice material and prepare for assessments. Due dates are set for all assignments and tests to help students stay on track and increase success.

**Modules**

The course is organized into the following topics.

* Limits
* Derivatives
* Applications of Derivatives
* Curve Sketching
* Integrals

**Evaluation**

Assignments 40 %

Test 50 %

Exam 10 %

**Materials**

* Computer or laptop
  + It is best to complete the course on a computer instead of a mobile device.
* Scientific calculator
  + The use of a phone or computer calculator app is not permitted on tests. It is advised to always practice with a handheld calculator.
* Lined paper
  + Regular practice is required to master math skills. This is best completed on paper to encourage clear notation.
* Pencil and eraser